PATENT ABSTRACTS OF JAPAN

(54) INFORMATION OUTPUT DEVICE AND INFORMATION OFFERING SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To enable offering/acquisition of information in preferable procedure by attaching an identification code to each of service

information to be provided and enabling at least either of a service side or a user side to optionally select one of a variety of utility procedures corresponding to the code.

SOLUTION: In this systema client side is provided with this device 10. Herethis device 10 is equipped with a code input means 20 for inputting an information identification codea procedure selection means 30 for selecting a suitable utility procedure for using specific service information corresponding to the information identification code from plural utility procedures prepared in advance on the basis of the input information identification codeand an information output means 40 for acquiring specific service information from specific service information sources 5060 and 70 in accordance with the selected utility procedure and outputting it in a specified expression form.

CLAIMS

[Claim(s)]

[Claim 1]An information output device comprising:

A code input means to input an information identification code.

A procedure-selection means to select a utilization procedure which was suitable for using specific servicing information corresponding to this information identification code based on an inputted information identification code from two or more utilization procedures prepared beforehandAn information output means which acquires specific servicing information from a predetermined source of servicing information according to a selected utilization procedureand is outputted by predetermined expressive form.

[Claim 2]The information output device according to claim 1wherein said information output means executes a script program in which an output is possible by expressive form which defined said servicing information beforehandand said procedure-selection means matches this script program with

said information identification code and selects it.

[Claim 3]Said procedure-selection means memorizes said at least one information identification code and two or more script identification codes corresponding to this information identification codein order to identify said script programThe information output device according to claim 2 selecting a specific script identification code from a script identification code of this plurality.

[Claim 4]Said procedure-selection means changes an inputted information identification code into two or more script identification codes corresponding to this information identification codeThe display output of two or more distinguishing marks corresponding to two or more script programs is carried out to said information output meansThe information output device according to claim 2 selecting a script program corresponding to a specified this distinguishing mark according to selection operation of an operator which specifies any they are among distinguishing marks of this plurality.

[Claim 5]The information output device according to claim 1wherein said code input means inputs an information identification code contained in this information from specific information.

[Claim 6]The information output device according to claim 3 said procedure-selection means' acquiring said information identification code and a script identification code corresponding to this information identification code from external code correspondence sources of informationand having a code storage part to memorize.

[Claim 7]The information output device according to claim 3wherein said information output means acquires said script program from an external source of script information based on said script identification code.

[Claim 8]The information output device according to claim 6 with which said information output means is characterized by having a script storage parts store which matches with said script identification code two or more script programs corresponding to a script identification code memorized by said procedure-selection meansand memorizes them.

[Claim 9]The information output device according to claim 1wherein said code input means inputs a code of a predetermined digit number according to operation of an operator.

[Claim 10]A judging means which judges whether an information identification code inputted by said code input means is effective is establishedThe information output device according to claim 1 judging whether an information identification code which this judging means acquired information which specifies the validity of said information identification code from predetermined code management sources of informationand was inputted by said code input means based on this acquisition information is effective.

[Claim 11]The information output device according to claim 2wherein said code input means inputs additional information which accompanies this information identification code with said information identification code and said procedure-selection means selects said script program based on this additional information and said information identification code.

[Claim 12]The information output device according to claim 2wherein said script program carries out the transfer request of said specific servicing information to said source of servicing information based on said additional information and said information identification code.

[Claim 13]The information output device according to claim 2wherein said information output means acquires a specific program or data from service-function sources of information which provide a program or data for adding a required service function according to an operator input based on said information identification code.

[Claim 14]When an information identification code to which said procedure-selection means corresponds to neither among said memorized information identification codes is inputted by said code input meansThe information output device according to claim 6 requiring transmission of a script identification code corresponding to this information identification code of said source of code information.

[Claim 15]The information output device according to claim 2 establishing an updating period judging means which judges the necessity for renewal of version information or a script identification code to this script program and a script identification code of said script program.

[Claim 16]The information output device according to claim 2 with which said script program is characterized by requiring specific servicing information specified by an operator of said predetermined source of servicing information.

[Claim 17]The information output device according to claim 1 in which said servicing information is merchandise information.

[Claim 18]The information output device according to claim 1 provided with an accumulation memory means to accumulate said acquired specific servicing information.

[Claim 19]The information output device according to claim 5 which is the information by which the record output was carried out in [said specific information] visible.

[Claim 20]The information output device according to claim 5 which is the information which said specific information received via a specific information transmission path from the outside.

[Claim 21]The information output device according to claim 19 in which said specific information is information indicated for a magazine.

[Claim 22]The information output device according to claim 1 in which said specific information is information broadcast from a broadcasting station.

[Claim 23]The information output device according to claim 10 whose information which specifies the validity of said information identification code is information which specifies a shelf-life of an information identification code.

[Claim 24]The information output device according to claim 10 whose information which specifies the validity of said information identification code is information which specifies a version of an information identification code.

[Claim 25]When a signal for linkage transmitted to a predetermined program by carrying out multiplex is receivedsaid code input meansThe information output

device according to claim 1 which inputs automatically said information identification code corresponding to this signal for linkage and with which said procedure-selection means and an information output means are characterized by carrying out the coordinated movements of a predetermined program and said script program.

[Claim 26]The information output device according to claim 25wherein said signal for linkage is the additional information relevant to the present scene of a predetermined program.

[Claim 27]The information output device according to claim 25 or 26wherein said signal for linkage is a synchronized signal transmitted to the present scene of a predetermined program by interlocking.

[Claim 28]The information output device comprising according to claim 25:

A taste storage parts store which memorizes taste conditions of a user in case said code input means carries out the coordinated movements of said predetermined program and either of said script programs.

A condition-of-compatibility deciding part which determines said taste conditions of said signal for linkageand a condition of compatibility with said script programand a matching part which compares whether a received signal for linkage suits conditions determined by said condition-of-compatibility deciding part.

[Claim 29]Said condition-of-compatibility deciding part downloads an identification code of a new signal for linkage which carries out multiplex to a program and may be transmitted to itand its attribution information from an external coded data basethis -- the information output device according to claim 28 determining said taste conditions of a new signal for linkageand a condition of compatibility with a script program.

[Claim 30]The information output device according to claim 25 having a time limit mechanism for restricting execution time of said procedure-selection means and an information output means so that the time required from reception of said

signal for linkage to an operation start of said script program may become in predetermined time.

[Claim 31]The information output device according to claim 25wherein operation of said script program is a recording start of said programor the receiving channel change to the program concerned.

[Claim 32]Said condition-of-compatibility deciding part uploads said taste conditions to an external purveyor of serviceThe information output device according to claim 28 downloading a result which requested determining said signal for linkageand said taste conditions to the purveyor of serviceand was determined by the purveyor of service.

[Claim 33]The information output device comprising according to claim 25:
Taste conditions of a user when said code input means inputs said information identification code and its attribution informationand making this attribution information into said signal for linkage and carrying out the coordinated movements of said predetermined program and either of said script programs.
A conformity judgment part which gives an information identification code corresponding to a this received signal for linkage to said code input means when said signal for linkage suits said taste conditions and a condition of compatibility with said script program based on attribution information of this information identification code.

[Claim 34]The information output device according to claim 5 provided with a specific information memory means which accumulates said specific information.

[Claim 35]The information output device according to claim 34 with which said specific information contains picture information.

[Claim 36]While inputting an information identification code beforehand decided by operation of an operator by said code input meansA code grant means which gives an information identification code inputted by this code input means to said acquired specific informationand makes information on this specification identifiable is formedThe information output device according to claim 34wherein

said specific information memory means accumulates specific information to which this information identification code was given.

[Claim 37]The information output device according to claim 36 which is the picture information by which said specific information was acquired from electronic media.

[Claim 38]An information service system comprising:

The information output device according to claim 1.

Said specific source of servicing information which can provide this information output device with said servicing informationAn information output control means which starts a script program suitable for a utilization procedure selected by said procedure-selection means based on information from said information output deviceacquires said specific servicing information which should be acquired by said information output device from said source of servicing informationand is outputted to said information output device.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention relates to an information output device and an information service systemespecially relates to the suitable information output device and information service systems for a providing systemsuch as an information terminal and merchandise information.

[0002]

[Description of the Prior Art]Recentlyin the television broadcasting which provides video informationespecially digital broadcastingetc.almost synchronizing with the main animation screens of a programadditional information (data and program) is sent to the television set sideand interactive program offer reflecting the hope by

the side of an addressee is tried. What performs reporting serviceproviding service of processing dataetc. in the various commercial networks using not only television broadcasting but the Internetsatellite communicationa CATV networketc.Or various kinds of information service systemssuch as a thing for which the company member enabled it to use common informations arbitrarily in the network in a company (for exampleintranet)are realized. Corresponding to diversification of the latest informationan identification number is attached to merchandise information etc. also in a magazine etc.and the device for meeting the detailed information demand from a user is made.

[0003]

[Problem(s) to be Solved by the Invention]Howeverthere were the following faults in the conventional information service system.

(1) Time and effort requires operation of the user for preparing the data and the program as additional information corresponding to an animation side.

(2) Close cooperation is needed between work of an animation sideand work of additional informationand work takes time and effort.

(3) To the phenomenon which occurs in real timedelay will arise inevitably for preparation of additional information.

(4) When sending additional information by multiple address type mediathe utilization procedure of pertinent information becomes uniform and a user cannot choose a favorite utilization procedure.

(5) Even if it enables it to use the moving image information and additional information of a screen simultaneouslyit has unreasonableness that some users see simultaneously two or more contents of a screen display.

[0004]Thenthe purpose of this invention is as follows.

Attach each identification code to the service provided.

Enable it to choose arbitrarily the various utilization procedures corresponding to the identification code by one side at least the service side and among user endsand enable offer/acquisition of the information on a desirable utilization procedure.

[0005]

[Means for Solving the Problem]For the above-mentioned purpose achievementthe invention according to claim 1Based on an information identification code inputted as a code input means to input an information identification codeA procedure-selection means to select a utilization procedure suitable for using specific servicing information corresponding to this information identification code from two or more utilization procedures prepared beforehandAccording to a selected utilization procedurespecific servicing information was acquired from a predetermined source of servicing informationand it has an information output means outputted by predetermined expressive form. Thereforevarious utilization procedures corresponding to an identification code can be arbitrarily chosen by the service or user sideand offer/acquisition of information on a desirable utilization procedure are attained. An information identification code means here an identification code attached to information (servicing information) for every service with which a user is providedrespectively. A predetermined source of servicing information is a homepage of various merchandise information which can be specified by URL (Uniform Resource Locator) usedfor example by WWW (World Wide Web)Or they are sources of multiple address type servicing informationsuch as a database server by the side of serviceand a broadcasting station in which the service side and two-way communication are possiblein by the side of a user who connects via a predetermined information transmission pathand service (client side) (server side).

[0006]Said information output means executes a script program in which an output is possible by expressive form which defined said servicing information beforehandsaid procedure-selection means matches this script program with said information identification codeand the invention according to claim 2 selects. Thereforea favorite thing can be chosen from two or more script programs corresponding to an identification codeand selection of a desirable utilization

procedure is attained by easy operation. With a script program herea search functiona link functionIt has the file which described procedure for exhibiting specific functionssuch as an accounting functiona clearing functionor a graphical user interface (Graphical User Interface) functionAccording to a terminal handling etc. which were separately assigned by the descriptiona program which performs processing which demonstrates said function is said.

[0007]The invention according to claim 3 memorizes said at least one information identification code and two or more script identification codes corresponding to this information identification codein order that said procedure-selection means may identify said script programA specific script identification code is selected from a script identification code of this plurality. Thereforequick selection of a script program is attained.

[0008]The invention according to claim 4 changes into two or more script identification codes corresponding to this information identification code an information identification code into which said procedure-selection means was inputtedThe display output of two or more distinguishing marks corresponding to two or more script programs is carried out to said information output meansand a script program corresponding to a this specified distinguishing mark is selected according to selection operation of an operator which specifies any they are among distinguishing marks of this plurality. Thereforea utilization procedure which an operator wishes can be selected by easy selection operation which chooses a distinguishing mark.

[0009]The invention according to claim 5 inputs an information identification code contained in this information from information that said code input means is specific. Thereforean information identification code can be inputted using the existing input means which inputs said specific information. Specific information is information recorded on various kinds of available information transmission media of picture information or a user included in a user's vision hereAlthough what kind of thing it may be sufficient as a gestalt of information storage in a transmission system way and an information transmission medium of the

informationFor examplethey are paintings-and-calligraphic-works image information printed on spacesuch as video information from a broadcasting station and information provided by this-accompanyingand printed matterand the information data recorded on electronic media (DVD (Digital Video Disc)CD-ROMetc.) so that read-out was possible. An input method of an information identification code a direct manual input by a keyboard etc.What inputs program accompanying information momentarily by remote control operation etc.They may be anysuch as what data-izes visible information by an optical reading meansa thing which reads recorded information from an information recording medium using a magnetic or electric reading meansor a thing which inputs coded data directly via a predetermined information transmission path.

[0010]The invention according to claim 6 a script identification code corresponding to said information identification code and this information identification code in said procedure-selection meansIt acquires from external code correspondence sources of informationand has a code storage part to memorizeandas for the invention according to claim 7said information output means acquires said script program from an external source of script information based on said script identification code. Thereforeeven if it is a new (it does not hold now) information identification code and a script identification codeit can be incorporated from external sources of informationa new script program can be startedand correspondence becomes possible easily at various utilization procedures. The code correspondence sources of information can consider what put a conversion table of an information identification code and a script identification code in a databasefor example.

[0011]The invention according to claim 8 has a script storage parts store with which said information output means matches with said script identification code two or more script programs corresponding to a script identification code memorized by said procedure-selection meansand remembers them to be. Thereforea selected script program can be started immediately. Said script storage parts store is a storage device which memorizes a conversion table of an

information identification code and a script identification code which were acquiredfor example from code correspondence sources of information and in which a memory or high speed reading is possible.

[0012]In the invention according to claim 9said code input means inputs a code of a predetermined digit number according to operation of an operator. Thereforeregardless of a gestalt of mediaan information identification code can be inputted from various media. A judging means which judges whether the invention according to claim 10 has an effective information identification code inputted by said code input means is establishedThis judging means acquires information which specifies the validity of said information identification code from predetermined code management sources of informationand it is judged whether an information identification code inputted by said code input means based on this acquisition information is effective. Thereforeit can be judged immediately whether an inputted information identification code is effectiveand useless processing can be prevented. Said code management sources of information can consider what attached and put the term of validity in a databasefor example in a correspondence relation between an information identification code and a script identification code corresponding to the code.

[0013]The invention according to claim 11 inputs additional information to which said code input means accompanies this information identification code with said information identification codeand said procedure-selection means selects said script program based on this additional information and said information identification code. Hereadditional information is anysuch as a version of a shelf-life of an information identification code or the term of validityand a correspondence script programand an address of servicing informationor at least one. Thereforea desirable utilization procedure can be promptly selected for additional information by a basis.

[0014]In the invention according to claim 12said script program carries out the transfer request of said specific servicing information to said source of servicing information based on said additional information and said information

identification code. Thereforespecific servicing information can be provided or acquired promptly. The invention according to claim 13 acquires a specific program or data from service-function sources of information which provide a program or data for said information output means to add a required service function according to an operator input based on said information identification code. Thereforea needed service function can be added suitably. Said service-function sources of information are the databases etc. which stored a program or data for adding said service function.

[0015]The invention according to claim 14 requires transmission of a script identification code corresponding to this information identification code of said source of code informationwhen an information identification code to which said procedure-selection means corresponds to neither among said memorized information identification codes is inputted by said code input means. Thereforea script program which is not held till then can also be started certainly.

[0016]The invention according to claim 15 establishes an updating period judging means which judges the necessity for renewal of version information or a script identification code to this script program and a script identification code of said script program. Thereforequick starting of a script program is attained by holding an always new script program with the identification code by judging an updating period. Said updating period judging means acquires determination information for judging the validity of a script program and a script identification codefor example based on version information of a script program from code management sources of information.

[0017]The invention according to claim 16 requires specific servicing information which an operator specified in said script program of said predetermined source of servicing information. Thereforespecific servicing information can be acquired according to a utilization procedure specified by an operatorand it can output with a gestalt corresponding to specification of an operator. The invention according to claim 17 is characterized by said servicing information being merchandise information. Thereforeoffer/acquisition is attained in merchandise information not

with a uniform procedure but with a utilization procedure suitable for a user's liking.

[0018]The invention according to claim 18 was provided with an accumulation memory means to accumulate said acquired specific servicing information. Thereforean output which displays specific servicing information with which the user side was provided at the time of the necessity for a user is attained. The invention according to claim 19 is characterized by said specific information being information by which the record output was carried out in visible. Hereimage displayprint recordingetc. which can be grasped visually are said in visibleand selection of a utilization procedure by a user is attained by this visible information.

[0019]The invention according to claim 20 is characterized by said specific information being information received via a specific information transmission path from the outside. For examplealthough it is video information and information provided by this-accompanying from a broadcasting stationit is the picture information transmitted via a dial-up linea bidirectional radio circuitand a cable TV network and other wire communication lines.

[0020]The invention according to claim 21 is characterized by said specific information being information indicated for a magazine. That isit is a case where specific information turns into paintings-and-calligraphic-works image information printed on spacesuch as printed matter. In this casean input method is also in a thing which a user reads a visible identification code and carries out a manual inputor a thing which data-izes visible information by an optical reading meansand is **.

[0021]The invention according to claim 22 is characterized by said specific information being information broadcast from a broadcasting station. Thereforeby remote control operation etc.program accompanying information can be inputted momentarily and servicing information related from the program accompanying information can be acquired from real time or after if needed. In the invention according to claim 10information which specifies the validity of said information

identification code the invention according to claim 23It is characterized by being the information which specifies a shelf-life of an information identification codeand the invention according to claim 24 is characterized by information which specifies the validity of said information identification code being information which specifies between versions of an information identification code. Thereforea validity judging can be immediately carried out from a shelf-life or a version of an inputted information identification code.

[0022]When a signal for linkage transmitted by carrying out multiplex [of the invention according to claim 25] to a predetermined program is receivedSaid code input means inputs automatically said information identification code corresponding to this signal for linkageand said procedure-selection means and an information output means carry out the coordinated movements of a predetermined program and said script program. Thereforeadvanced coordinated movements using a broadcasting signal can be performed between a program and a script by the side of a receiving terminal.

[0023]Said signal for linkage is the additional information relevant to the present scene of a predetermined program like the invention according to claim 26Or like the invention according to claim 27advanced coordinated movements can be performed between a program and a script by the side of a receiving terminal using accompanying information of a program as it is a synchronized signal transmitted to the present scene of a predetermined program by interlocking.

[0024]A taste storage parts store which memorizes taste conditions of a user in case [according to claim 28] said code input means carries out the coordinated movements of said predetermined program and either of said script programs likeA condition-of-compatibility deciding part which determines said taste conditions of said signal for linkageand a condition of compatibility with said script programIf it is made to have a matching part which compares whether a received signal for linkage suits conditions determined by said condition-of-compatibility deciding partonly by registering a user's taste beforehandOperation which cooperates to an automatic input of an information identification code

according to the taste and a program of a script program using it can be performed highly without a user's complicated alter operation.

[0025]An identification code of a new signal for linkage which said condition-of-compatibility deciding part carries out multiplex [of the invention according to claim 29] to a programand may be transmittedand its attribution information are downloaded from an external coded data basethis -- said taste conditions of a new signal for linkage and a condition of compatibility with a script program are determined. Thereforecorrespondence becomes possible easily also at said new signal for linkageand coordinated movements stable in a usual state of a script program can be expected.

[0026]When said signal for linkage is a synchronized signal transmitted to the present scene of a program by interlockingthe invention according to claim 30 so that the time required from reception of said signal for linkage to an operation start of said script program may become in predetermined timeIt has a time limit mechanism for restricting execution time of said procedure-selection means and an information output means. Thereforethough various combination of a script is made possiblea sex is securable instancy.

[0027]Recording operation which operation of said script program excelled in a sex instancy since the invention according to claim 31 was a recording start of said program or the receiving channel change to the program concerned becomes possible. Said condition-of-compatibility deciding part uploads said taste conditions to an external purveyor of serviceand requests determining said signal for linkageand said taste conditions to the purveyor of serviceand the invention according to claim 32 downloads a result determined by the purveyor of service.

[0028]Said code input means is [the invention according to claim 33] in charge of inputting said information identification code and its attribution informationTaste conditions of a user when making this attribution information into said signal for linkage and carrying out the coordinated movements of said predetermined program and either of said script programsWhen said signal for

linkage suits said taste conditions and a condition of compatibility with said script program based on attribution information of this information identification codeit has a conformity judgment part which gives an information identification code corresponding to a this received signal for linkage to said code input means. Thereforeadvanced coordinated movements using attribution information of an information identification code can be performed between a program and a script by the side of a receiving terminal.

[0029]In the information output device according to claim 5the invention according to claim 34 is provided with a specific information memory means which accumulates said specific informationand is the thing according to claim 35 for which said specific information contains picture information like preferably. Thereforean information identification code can be accumulated with an introduction picture of the information contentetc.and the availability of an operator can be improved.

[0030]While the invention according to claim 36 inputs an information identification code beforehand decided by operation of an operator by said code input meansA code grant means which gives an information identification code inputted by this code input means to said acquired specific informationand makes information on this specification identifiable is formedand said specific information memory means accumulates specific information to which this information identification code was given. Thereforefavorite information of a user (operator) who cannot specify in the offer-of-information side is chosen by the arbitrary selection operationWith an information identification code decided arbitrarily (howeverattribution information which defines that it is a determination code by a user is included) by userit can accumulate in the identifiable state easily.

[0031]Since said specific information is the picture information obtained from electronic mediaa user's favorite picture information can be accumulated identifiable easilyand the invention according to claim 37 can reproduce it. An information service system concerning the invention according to claim 38The

information output device according to claim 1 and said specific source of servicing information which can provide this information output device with said servicing informationA script program suitable for a utilization procedure selected by said procedure-selection means based on information from said information output device is startedIt has an information output control means which acquires said specific servicing information which should be acquired by said information output device from said source of servicing informationand is outputted to said information output device. Thereforeoffer of servicing information from a source of servicing information to an information output device is facedBased on information from the information output device sidea script program suitable for a utilization procedure with which the service side was also selected by the information output device side is startedAn output of servicing information by the side of an information output device will be controlled according to a desirable procedure by that causeand servicing information will be promptly provided by a supply form for which a user wishes.

[0032]

[Embodiment of the Invention]It explains referring to an accompanying drawing for the desirable embodiment of this invention hereafter.

<1st embodiment> drawing 1 - drawing 6 are the figures showing one embodiment of the information service system concerning this inventionand show the example which applied this invention to the client/server type system.

[0033]Firstas shown in drawing 1 and drawing 2this information service system equips the client side with the information output device 10and the information output device 10 has the code input means 20the procedure-selection means 30and the information output means 40. This information service system The specific sources 5060and 70 of servicing information which can provide that information terminal with servicing information furtherBased on the information from the information output device 10the script program by the side of service suitable for the utilization procedure selected by the procedure-selection means 30 is startedIt has the information output control means 150 which acquires the

specific servicing information which should be acquired by the information output device 10 from the sources 5060and 70 of servicing informationand is outputted to the information output device 10. And although mentioned later for detailsWhen providing the servicing information from the sources 5060and 70 of servicing information to the information output device 10information transmission is made with the gestalt in which predetermined input by codes and operation of a procedure selection are possible at a client sideand servicing information is promptly provided by the supply form for which a user wishes.

[0034]The code input means 20 of the information output device 10 inputs the identification code (henceforth service ID) beforehand defined about the service provided for a user. The procedure-selection means 30 selects a utilization procedure suitable for using the specific servicing information corresponding to the service ID from two or more utilization procedures prepared beforehand based on service ID inputted by the code input means 20. Hereservicing information is information for every service with which a user is providedfor exampleit is the information on various kinds of goods which can circulate not only by the article goods which circulate by a means of transport but by an information transmission pathand informationincluding those fee collectionsettlement of accountsetc.is included. The information output means 40 acquires specific servicing information from the predetermined source of servicing information according to the utilization procedure selected by the procedure-selection means 30and outputs it by predetermined expressive form. The predetermined source of servicing information is WWW (below World-Wide-Web;.)for example. only -- Web -- saying -- it being the source 50 of various merchandise information which can be specified by URL (Uniform Resource Locator) usedandOr they are the sources 70 of multiple address type servicing informationsuch as the database server 60 by the side of serviceand a broadcasting station in which the service side and two-way communication are possiblein by the side of the user who connects via a predetermined information transmission pathand service (client side) (server side).

[0035]The code input means 20 can input service ID contained in the information from specific informationFor examplethe identification code which consists of the number of a predetermined digit numberthe alphabeta signetc.or the code specific information (for examplebar code) expressed to space with this is inputted according to operation of an operator. Specific information is the image display and print recording which a user can recognize by vision hereit is the information recorded on various kinds of available information transmission media of a userfor exampleelectronic media and a publicationand selection of the utilization procedure by a user is possible. Thereforealthough what kind of thing it may be sufficient as the gestalt of the information storage in this specific transmission system way of information and distribution channeland an information transmission mediumspecificallyfor examplea specific information transmission path (a bidirectional radio circuit and a cable TV network.) The information provided along with the video information from the broadcasting station 101 (source of multiple address type servicing information) and this which received via a dial-up line and other wire communication linesThey are the paintings-and-calligraphic-works image information indicated for the magazine 102and the other information data recorded on electronic media (DVD (Digital Video Disc)CD-ROMa floppy disketc.) so that read-out was possible.

[0036]How for the input method of service ID to carry out a manual input directly by keyboard 21 gradeHow (it mentions later) to carry out memory memory of the program accompanying information received via the reception means 22 of an antenna etc. momentarily according to operation of the remote control 24 (refer to drawing 3)How to data-ize paintings-and-calligraphic-works image information printed by OCR(Optical Character Reader) 23 which is an optical reading meansHow to read recorded information from the electronic media using the writing / read-out means against electronic media (information recording medium)Or they may be anysuch as the method of carrying out the direct entry of the coded data of service ID from external information storage media via the predetermined information transmission path which a telephone line etc. do not

illustrate.

[0037]Herean example of the hard structure of the information output device 10 is explainedand the example of an input gestalt of service ID corresponding to it is explained. As shown in drawing 2the information output device 10 is provided with the television part (for exampletelevision (TV) television machine) 11the personal computer section 12the remote-control-operation signal input part 13the screen synchronizer 14and the display section (for exampleCRT) 15.

[0038]The TV section 11 incorporates into the channel selection part 26 the broadcasting signal received by the reception means 22 of an antenna etc.Channel selection processing which extracts a specific broadcasting signal according to the channel selection command signal from the remote-control-operation signal input part 13 in this channel selection part 26 is performedand the broadcasting signal of a specific channel is sent to the voice output part 27 and the video output part 28. Carrying out voice response of the voice output part 27 to the loudspeaker 29 corresponding to the input signal from the channel selection part 26the video output part 28 outputs the signal for screen display corresponding to the input signal from the channel selection part 26 to the screen synchronizer 14. The remote-control-operation signal input part 13 distributes the input signal from the remote control 24 to the TV section 11 and the personal computer section 12 according to the classification of the button (in a figureit is described as **) put so. In the screen synchronizer 14processing which superimposes the display from the personal computer section 12 on a television imagery screen is performed.

[0039]Although the input signal which comes out of the channel selection part 26 is a signal for carrying out digital transmission of the video etc.for exampleit can consider including service ID in a part of signal tuned in in that caseand transmitting to it. That issince it is possible to make a reverse use of the ability of an image not to be sent between vertical non-signal period VBI (Vertical Blanking Interval) of a television signaland to send control information various in the meantimeit is possible to transmit service ID in VBI.

[0040]The 1st input part 31 (code input means) that the personal computer section 12 has the VBI eliminator 31a which separates service ID contained in VBI from a broadcasting signaland inputs service ID through thisThe 2nd input part 32 (code input means) as a general-purpose input part which incorporates the signal from various external input equipmentThe memory 33 containing RAM (Random Access Memory) and ROM (Read Only Memory)It has the picture signal output part 35 which generates and outputs an image display signal according to the generating picture signal from CPU (CentralProcessing Unit)34 and CPU34 connected to the 1st input part 31the 2nd input part 32and the memory 33 via the internal bus 34a. This personal computer section 12 is performing the basic script (control program) memorized by ROM in the memory 33 by CPU34For exampleseparate service ID transmitted between vertical non-signal period VBI according to the code storing command signal from the remote-control-operation signal input part 13 from other input signalsand it inputs into the 1st input part 31Or via the keyboard 21OCR23 or a telephone line (for exampleISDN (Integrated Services DigitalNetwork; integrated services digital network) circuit)and the modem 25 from external information storage media. Service ID is inputted into the 2nd input part 32. And while preparing at least one script program corresponding to service ID inputted by delivering and receiving data between CPU34 and the memory 33The selection processing is carried out to an operatorand specific servicing information is acquired from said predetermined sources 5060and 70 of servicing information according to the utilization procedure selected therefor examplea display output is carried out by predetermined expressive form by the display section 15.

[0041]Namelythe personal computer section 12 constitutes said procedure-selection means 30 and the information output means 40and the procedure-selection means 30In order to identify a script programat least one service ID and two or more script ID corresponding to that service ID are memorized in the memory 33and specific script ID is selected from two or more of these script ID. Thereforequick selection of a script program is possible. Said script program A

search functiona link functionan accounting functionIt has the file which described the procedure for exhibiting specific functionssuch as a clearing function or a graphical user interface function (henceforth a GUI function)and processing which demonstrates said function according to the terminal handling etc. which were separately assigned by the description is performed. That isa script program requires the specific servicing information specified by an operator of said predetermined source of servicing informationand acquires specific servicing information according to the utilization procedure specified by an operatorand the output in the output form corresponding to specification of an operator is attained.

[0042]The personal computer section 12 the code conversion table 36 for changing into two or more script ID corresponding to the service ID service ID inputted by the code input means 20and a service ID memory list (not shown)It had in the memory 33 as a code memory meansthe data equivalent to the conversion table of both codes was acquired from the external conversion table database 110 (code correspondence sources of information)and it has memorized in the form of a conversion table as shown in drawing 1. This conversion table is a thing of the form to which service ID and two or more functions (the inside of drawing 1 a search functiona link functiona clearing functiona GUI function) corresponding to this are made to correspondand can specify any they are among the script programs which can be executed by the information output means 40 corresponding to each of that function. The conversion table database 110 the data which is equivalent to the conversion table of two or more service ID and two or more script ID corresponding to each service IDfor example with the data of the title of the servicing informationand the term of validity of service ID. Specified quantity accumulation is carried outit is what was put in a database and the accumulation information is updated periodically.

[0043]By the display section 15as shownfor example in drawing 6the personal computer section 12The display output of two or more distinguishing marks 15a

(icon; pattern which symbolizes the function of the script program concerned) corresponding to two or more script programs can be carried outAccording to the selection operation (for exampleclick operation) of the operator which specifies any they are among two or more of the distinguishing marks 15ait has a function which selects the script program corresponding to the specified distinguishing mark. Thereforethe utilization procedure which an operator wishes can be selected by the easy selection operation which chooses the distinguishing mark 15a. Since a favorite thing can be chosen from two or more script programs corresponding to the distinguishing mark 15aselection of a desirable utilization procedure is attained by easy operation.

[0044]The basic script storage parts store 41 concerning fundamental operation of a GUI functionan animation display functionetc.the selection script storage parts store 42 which memorizes the script program for the real time input of service ID by remote control operationetc.and ** are provided in the memory 33 of the personal computer section 12. Further these script storage parts stores 41 and 42 if needed Said search functionThe script storage parts store which can memorize the script program for exhibiting a link functiona clearing functionan accounting functionetc. is constitutedThe plurality or one script program corresponding to script ID memorized by the code conversion table 36 is matched with the script IDand is memorized. When these script storage parts stores 41 and 42 consisted of a storage device in which a memory device or high speed reading is possiblefor exampleit matches with service ID and a script program is selected by CPU34The script program which the script program stored in the basic script storage parts store 41 was started based on selected script IDor was further stored in the selection script storage parts store 42 is executed.

[0045]About the script program which is not beforehand stored in the basic script storage parts store 41 or the selection script storage parts store 42it acquires from the service-function database 120 which is also an external source of script information. That iseven if it is new (it does not hold now) service ID and script

IDit can be incorporated from external sources of informationa new script program can be started nowand it can respond to various utilization procedures easily.

[0046]On the other handthe personal computer section 12 has memorized the program which judges the validity of service ID inputted into the decision program storage parts store 37 provided in the memory 33 by the code input means 20and has a form which built in the judging means of the validity of service ID by this. Information as which this judging means (they are mainly CPU34 and the decision program storage parts store 37) specifies the validity of service ID (although it is the term of validity of a code conversion table in drawing 1) the version information of service ID -- it may be -- it acquires from the conversion table database 110 as predetermined code management sources of informationand it is judged by comparing present time and term of validity whether inputted service ID is effective based on this acquisition information. Thereforeit can be judged immediately whether inputted service ID is effectiveand useless processing which carries out a communication interface etc. using invalid service ID can be prevented. About the conversion table database 110. It not only accumulates the correspondence relations and the term of validity of service ID and script ID corresponding to the codebutEnabling updating only of data in part is also considered using the term of validity or an updating period of only two or more each version information or service ID of a file of a script programor script IDetc.

[0047]To the decision program storage parts store 38 which formed the personal computer section 12 in the memory 33. The program which judges the necessity for renewal of version information or script ID to the script program and script ID of a script program is memorizedIt has a form which built in the updating period judging means (they are mainly CPU34 and the decision program storage parts store 38) of the script program by this. That isby judging the updating period of a script programthe personal computer section 12 is holding an always new script program with the identification codeand enables quick starting of the script

program. The decision program storage parts store 38 which constitutes an updating period judging meansFor examplebased on the version information of a script programthe determination information (for exampleexistence of updatingnew chord) for judging the validity of a script program and script ID is acquired from the conversion table database 110 which is code management sources of information.

[0048]Each of a code input means 20 to connect with the personal computer section 12 can also input further the additional information which accompanies the service ID with service ID. Hereadditional information is at least one of the addresses of the shelf-life (term of validity) of service ID or version informationthe version information of a correspondence script programand servicing informationetc. If it is made to perform selection processing of the script program by the personal computer section 12 as the procedure-selection means 30 based on this additional information and service IDit is suitable for execution of processingand can dependand a desirable utilization procedure can be selected promptly.

[0049]The personal computer section 12 as the procedure-selection means 30When it corresponded to neither among service ID memorized to the translation table 36i.e.service ID which is not held now is inputted by the code input means 20Transmission of script ID corresponding to this service ID is required of the conversion table database 110 which is a source of code informationfor example via the modem 25. Thereforethe script program which is not held till then can also start it certainlyand by this script program. Based on additional information and service IDthe transfer request of the specific servicing information is carried out to the source 50 (homepage) of various merchandise information which is a source of servicing informationthe database server 60and source of multiple address type servicing information 70 grade. Thereforespecific servicing information can be provided or acquired promptly.

[0050]The personal computer section 12 as the information output means 40Based on service IDaccording to an operator input from the database 120

which is the service-function sources of information which provide the program or data for adding a required service function. A specific program or data is acquired and it memorizes to the basic script storage parts store 41 or the selection script storage parts store 42. Thereforea needed service function can be added suitably. Said service-function sources of information only not only in the database which stored the script program or data for adding a service functionIt cannot be overemphasized that it may be a thing containing the database server 60other homepagesetc. of the specialized agency (for examplesettlement-of-accounts period) which provides a new script program or data. The accumulation memory means which carries out accumulation memory of these information is attached to the personal computer section 12 that the specific servicing information acquired in order to increase the choice of a script should be accumulated for such a functional addition. This accumulation memory means is the arbitrary memory devices formedfor example as a part of memory 33.

[0051]As shown in drawing 3the remote control 24 is divided into the TV section operation area A1 and the personal computer section operation area A2and in the TV section operation area A1. The channel manual operation button [two or more (drawing 3 12 pieces)] 241 and the volume manual operation button 242 of the couple for carrying out degree operation of the volume are formed. The manual operation button 243 for the storing commands for making the memory 33 memorize service IDand the execution instruction button 244 and the button 245 for cursor advances for carrying out action selection mentioned later and its execution are provided in the personal computer section operation area A2. 246 is a button for power supply ON/OFF arranged in the upper part of the TV section operation area A1. The publicly known signal transmission medium which transmits a signal to the remote-control-operation signal input part 13 is built in this remote control 24.

[0052]In the information service system of this embodiment which has the above-mentioned compositionby performing processing which is explained belowthe

various utilization procedures corresponding to an identification code can be chosen arbitrarilyand offer/acquisition of the information on a desirable utilization procedure are attained. Firstsaid conversion table and a script program are beforehand prepared for the terminal side moderately as a preliminary process. On the other handwith specific informationas information which accompanies itservice ID is sent to the user sideor arrives to a user through a predetermined distribution channel.

[0053]In this stateprocessing as shown in drawing 4 and drawing 5 is performed. Firstif the flow chart shown in drawing 4 explains the procedure of an outlinein Step S1the service ID input from a user will be received and it will progress to Step S2. Input by codes at this time is performed by operation of the memory instruction button 243 of placing from the keyboard 21 mentioned abovefor example or optical reading by OCR23and the remote control 24 etc.

[0054]In Step S2it judges whether it is necessary to add inputted service ID to the service ID memory list of [in the memory 33]if there is no necessityit will progress to Step S3 promptlyand the service ID is added to a service ID memory list if necessary. Subsequentlyif it distinguishes whether the execution demand by remote control operation was in predetermined time by step S4 and there is no execution demandit will return to Step S1and if there is an execution demandit will progress to step S4. It does in this way because the information output device 10 of this embodiment is what has the TV section 11and a discrimination condition here may be changed according to many situationssuch as classification of the sending medium of service IDterminal specificationand TV program.

[0055]Based on two or more service ID memorized by service ID in the inputted service ID memory listand the conversion table of the code conversion table 36 in Step S5It progresses to Step S6after extracting two or more script ID corresponding to inputted service ID and carrying out a display output by the display section 15. When there is no service ID concerned in the check of the term of validity etc. to service IDor a conversion table as an option in this step

S6processing in which it downloads from a server is performed. Subsequentlyin Step S6it judges any of the following are performed using extracted script IDand performs. (4-1) Execute at least one extracted script program in predetermined orderand carry out output displaying of the result. In this caseit becomes the end of processing here. (4-2) First two or more service ID and the name of the function provided by the script program which it-correspondsFor examplea screen display is carried out as an action selection screen as shown in drawing 6the script corresponding to the selection operation of an operator is started one by oneand required servicing information is incorporated into the information output device 10. Processing in which check the term of validity to script IDetc. as an option in this stageor it downloads from a server when there is no script program concerned in the user terminal 10 is performed.

[0056]After the input of service IDthe selection operation by the action selection screen shown in drawing 6 accesses and displays the homepage corresponding to service IDfor examplewhen a user chooses "details" (action name). In this casethe acquisition course of homepage URL is written a part of "resource information" added to service IDor into the conversion table. Or it is possible to be at a part of additional information added to script ID etc.

[0057]When a user chooses "comparison/resemblance" (action name)a predetermined search service is called by making additional information (meta information) corresponding to the service ID concerned into a parameterand the result is displayed. In this caseabout the acquisition course of meta informationit is the same as that of the time of "details" selection. Thereforescript ID which this-corresponds is set to "C" to the remote control operation of the operator which specifies "the comparison/resemblance" in "the hotel of a capital" of service ID "5678"for exampleand the script program whose script ID is "C" is started. The information on "the hotel of a capital" is incorporated into the information output device 10 via a predetermined transmission route by this.

[0058]When a user chooses "purchase/request to print out files" (action name)it shifts to access of the order and account-settlement-services function

corresponding to service IDand future operations are left to an access point. Hereafterthe example procedure by operation of the remote control 24 is explained based on drawing 5. Firstwhile clearing a display screen and clearing the service ID memory list of [in the memory 33] at Step S10it prepares so that read-out of said conversion table memorized in the memory 33 and a predetermined script program is possible. As mentioned abovewith specific informationas information which accompanies itservice ID is sent to the user sideor arrives to a user through a predetermined distribution channel.

[0059]Subsequentlyin Step S11if there are waiting and an input about a remote control inputin the following step S12it will be distinguished whether the storage button 243 was operated or the execution button 244 was operated. If the storage button 243 is operated at this timeat the following step S13. VBI to service ID of the broadcast at the time or the additional information further added to the service ID is inputtedand after writing the entry content in the service ID memory list of [in the memory 33 which memorizes service ID] at the following step S14it returns to Step S11.

[0060]Subsequentlyif there is a remote control inputin the following step S12it will be distinguished whether the storage button 243 was operated or the execution button 244 was operated. If the execution instruction button 244 is operated at this timethe following processings will be repeated about all the service ID memorized by the service ID memory list at the following step S15. In Step S16based on one service ID memorized by the service ID memory listthe portion applicable to the service ID concerned in said conversion table is accessedand it is confirmed whether this service ID has reached at the following step S17 at the term of validity. At this timeif it is (O.K.) before the term of validityit will display in the form showing service IDa titleand an action name in drawing 6 at Steps S18-S20respectively.

[0061]Subsequentlycursor is expressed to the prescribed position of the display section 15 as Step S21and it progresses to the following step S22and waits for a remote control input. Hereif there is a remote control inputin the following step

S23it will be distinguished whether the cursor advance button 245 was operated or the execution button 244 was operated. If the cursor advance button 245 is operated at this timeat the following step S24the cursor on a screen will be moved in the move direction which that cursor advance button 245 showsand it will return to Step S22.

[0062]There is the next remote control inputand in the following step S23when it is distinguished that the execution button 244 was operatedit progresses to the following step S25. In this step S25script ID corresponding to an action name with the present cursor is acquired from said conversion tableit is the following step S26 and the script program corresponding to the script ID concerned is executed. And after the executionit returns to Step S2 and waits for the next remote control input.

[0063]Thusa code means 20 to input service ID according to the information service system [in / this embodiment / be]A procedure-selection means 30 to select a utilization procedure suitable for using the specific servicing information corresponding to inputted service IDSince it has the information output means 40 which acquires specific servicing information from the predetermined source of servicing information according to the selected utilization procedureand is outputted by predetermined expressive formThe various utilization procedures corresponding to service ID can be arbitrarily chosen by the service or user sideand offer/acquisition of the information on a desirable utilization procedure can be performed.

[0064]In this embodimentsince said servicing information is merchandise informationvarious merchandise information can be provided / acquired not with a uniform procedure but with the utilization procedure suitable for a user's liking. And since it has an accumulation memory means to accumulate the specific servicing information acquired in the personal computer section 12a screen display of the specific servicing information with which the user side was provided can be carried out at the time of the necessity for a useror a print recording output can be carried out. Since said specific information is information

broadcast from the broadcasting stationby operation of the remote control 24the memory input of the program accompanying information can be carried out momentarilyand servicing information related from the program accompanying information can be acquired from real time or after if needed. When specific information is information by which the record output was carried out in visiblecarry out facilitating of both the recognition and selection operation of service ID by a userand also when the specific information is information received via the specific information transmission path from the outsideboil a screen display etc. -- facilitating of both the recognition and selection operation of service ID by a ** user can be carried out. Even if said specific information is information indicated for the magazineeasy data-ization using OCR23 can be performed and facilitating of the recognition and selection of service ID by a user can be carried out.

[0065]In the information output device 10 of this embodimentThe personal computer section 12 which constitutes the information output means 40 with the TV section 11 executes the script program in which an output is possible by the expressive form which defined said servicing information beforehandSince the personal computer section 12 as the procedure-selection means 30 matches the crypto program with service ID and selects ita favorite thing can be chosen from two or more script programs corresponding to service IDand selection of a desirable utilization procedure is attained by easy operation.

[0066]Since the personal computer section 12 memorizes two or more script identification codes corresponding to at least one service ID and its service ID and selects a specific script identification code from two or more of the script identification codesa script program can be selected promptly. And the procedure-selection means 30 changes inputted service ID into two or more script identification codes corresponding to itSince the script program corresponding to the specified action name is selected according to the selection operation of the operator which carries out the display output of the action name corresponding to the script programand specifies the any they areThe utilization

procedure which an operator wishes can be selected by the easy selection operation which chooses an action name.

[0067]Since the code input means 20 inputs service ID contained in this information from specific informationservice ID can be easily inputted using the existing input means which inputs specific information. In additionsince the code input means 20 should just input the code of a predetermined digit number according to operation of an operatorit can input service ID easily from various media regardless of the gestalt of media. Since the information which specifies the validity of service ID is acquired from predetermined code management sources-of-information 120 grade and it judges whether service ID is effective based on thisit can be judged immediately whether inputted service ID is effectiveand useless processing can be prevented. And since the information which specifies the validity is the shelf-life and version information of service IDit can carry out a validity judging immediately from the shelf-life and version which were inputted.

[0068]Since the code input means 20 inputs the additional information which accompanies the service ID with service ID and the procedure-selection means 30 selects a script program based on the additional information and service IDA desirable utilization procedure can be promptly selected for additional information by a basis. And since the selected script program carries out the transfer request of the specific servicing information to the source of servicing information based on additional information and service IDspecific servicing information can be provided or acquired promptly.

[0069]Since the personal computer section 12 as the procedure-selection means 30 has the code conversion table 36 which acquires the script identification code corresponding to service ID and its service ID from the external code correspondence sources of information 110and memorizes itEven if it is service ID and the script identification code which are not held nowit can be incorporateda new script program can be started and it can respond to various utilization procedures easily. In additionsince the personal computer section 12

as the information output means 40 acquires a script program from external source of script information 120 grade based on a script identification codeWhile being able to respond to various utilization procedures easilya script program can be started immediately. The information output means 40 two or more script programs corresponding to the script identification code memorized by the procedure-selection means 30Since it has the script storage parts stores 41 and 42 which are matched with a script identification code and memorizedthe selected script program can be started immediately. The information output means 40 based on service IDcorresponding [and] to an operator inputSince a specific program or data is acquired from the service-function sources of information which provide the program or data for adding a required service functiona needed service function can be added suitably.

[0070]When service ID which corresponds to neither among service ID which the personal computer section 12 as the procedure-selection means 30 memorized to the code conversion table 36 is inputted by said code input meansSince transmission of the script identification code corresponding to the service ID is required of the source 110 of code informationthe script program which is not held till then can also be started certainly. Since the updating period judging means which judges the necessity for renewal of version information or a script identification code to the script program and script identification code of a script program was establishedBy judging an updating perioda script program can be promptly started by holding an always new script program with the identification code. And since the selected newest script program requires the specific servicing information specified by an operator of the predetermined source of servicing informationspecific servicing information can be acquired according to the utilization procedure specified by an operatorand it can output with the gestalt corresponding to specification of an operator.

<2nd embodiment> drawing 7 - drawing 12 are the figures showing other embodiments of the information service system concerning this invention. Although this embodiment differs from an above-mentioned embodiment at the

point which automated the input of the information identification codeit is almost the same about fundamental composition. Thereforethe numerals same about the composition which is the same as that of an above-mentioned embodimentor is equivalent to it as the numerals shown in drawing 1 - drawing 6 are attacheddetailed explanation is omittedand a point of difference is explained.

[0071]Firstas shown in drawing 7 and drawing 8this information service system equips the client side with the information output device 210and the information output device 210 has the code input means 220the procedure-selection means 30and the information output means 40. The specific sources 5060and 70 of servicing information to which this information service system can provide an information terminal with servicing informationBased on the information from the information output device 210the script program by the side of service suitable for the utilization procedure selected by the procedure-selection means 30 is startedIt has the information output control means 250 which acquires the specific servicing information which should be acquired by the information output device 210 from the sources 5060and 70 of servicing informationand is outputted to the information output device 210. When providing the servicing information from the sources 5060and 70 of servicing information to the information output device 10information transmission is made with the gestalt in which the input by codes and the procedure selection in a client side are possibleand servicing information is promptly provided by the supply form for which a user wishes.

[0072]Although the code input means 220 is mentioned later for detailsit is the same as that of the above-mentioned example at the point which is what inputs the identification code (henceforth service ID) beforehand defined about the servicing information with which a user is provided. Howeverbased on the input about the taste of the user who memorized the code input means 220 beforehandOnly service ID about the information which should be supervised is inputted automatically. Treat the synchronized signal with a meaning of an image scene etc. which were transmitted to the predetermined program by carrying out multiplex as a signal for linkage including service ID and its attribution

informationand it is judged whether it is a thing about the servicing information which the signal for linkage should superviseOnly required service ID is inputted automatically. And based on this service ID inputtedthe procedure-selection means 30 and the information output means 40 can carry out now the coordinated movements of one of the script programs to a predetermined program among plurality.

[0073]It is not necessary to give the significance and to include the attribution information which can be interpretedand said signal for linkage (the other multiple address type sending signal by which multiplex transmission is carried out may be used) does not necessarily need to be interlocked with [specific] service ID showing informationincluding various goodsan eventetc.with a program. That isit is the information with which a user is provided as information relevant to broadcastThe information which in particular the contents or a transmission route are not limited and expresses the present scene of a predetermined program (the scene on which the specific baseball player is in the at-batthe scene which a specific singer singsetc.)It is a certain additional information relevant to programssuch as information showing the advancing states (for examplethe race currently relayedthe present situation of a gameetc.) of a programor data and parameter information which are used by a specific script program.

[0074]If the means for inputting automatically hereafter the signal for linkage containing service ID is explainedWhen the signal for linkage transmitted to the predetermined program by carrying out multiplex is a synchronized signal with a meaning etc. which are transmitted to the present scene of a predetermined program by interlockingthe code input means 220The synchronized signal judges whether it is a thing about the information suitable for the user's taste which should be supervisedextracts only a required synchronized signaland inputs it automatically as a signal for linkage. Thereforeit has the taste storage parts store 91 which memorizes the taste conditions of a user when carrying out the coordinated movements of a predetermined program and either of said script programs to the code input means 220 in the memory 33. The code input means

220 as a condition-of-compatibility deciding part which determines the condition of compatibilityany one or the plurality of said taste conditions and said script program of said signal for linkageCPU34 is operated as a matching part which compares whether the received signal for linkage suits the conditions determined by said condition-of-compatibility deciding part.

[0075]moreover -- as opposed to the signal for linkage which CPU34 as said condition-of-compatibility deciding part can receive from now on -- being periodical (every [for example] starting of a device) -- memory information is updated. When an information identification code and its attribution information are transmitted in the form of the synchronized signal with a meaning for specifically generating the event usedfor example for an event starting type scriptThe information identification code of a new synchronized signal with a meaning (signal for linkage)and its attribution informationIt downloads from the external coded data base 130 via a telephone line and the modem 25and said taste conditions (it likes to a user) of the new information identification code and a condition of compatibility with a script program are determined. And CPU34 as this condition-of-compatibility deciding part determines that a surveillance object code group will mention laterand the surveillance object code memory means 92 is made to memorize it. Or CPU34 uploads the taste conditions set up by the user side to the server side (external purveyor of service)and it requests determining taste conditions with said signal for linkage to the purveyor of serviceIt says that the result determined by the purveyor of service is downloadedand reliance is also good.

[0076]So that CPU34 may have a timer circuit which is not illustrated and the time required from reception of said signal for linkage transmitted to the present scene of a program by interlocking to the operation start of a script program may become in predetermined timeThe execution time of the procedure-selection means 30 and the information output means 40 can be restrictedand this functions also as a time limit mechanism. Operation of a script program is the recording operation of a programfor exampleand said business time in that case

turns into time to the receiving channel change for a recording start or a recording start from reception of said signal for linkage here.

[0077]Nextthe procedure of an automatic input of the signal for linkage in this embodiment is explained. As shown in drawing 10when a user pushes the taste button 249 of the remote control 240at Step S31a taste input program is first started and executed by Step S32. This taste input program is expressed to CRT picture 15 as Step S51as shown in drawing 11. And when a user inputs liking of self using the keyboard 21 according to the guide at the following step S52it is an input process for memory of the taste conditions of repeating the above till the end of an input the entry content is remembered to be by the taste storage parts store 91 which memorizes taste conditions. ****** [an input] finally is confirmed at Step S54and an input item returns to the step [with / plurality] S52.

[0078]Subsequentlyif a user pushes "execution" button 244 in the following step S33a taste input program will be ended and the following steps will be performed automatically. Firstthe information identification code (plurality) which may be transmitted from now onand each attribution information are downloaded via the modem 25 from the coded data base 130 at Step S34.

[0079]Subsequentlythe retrieval program 82 stored in the memory 33 at Step S35 is started as a condition-of-compatibility deciding partand the following step S36 is performed about all the downloaded information identification codes. In this step S36based on the attribution information of the information identification code concernedand the memory content of the taste storage parts store 91 established in the memory 33The goodness of fit is calculated by a predetermined formulaand when the result exceeds the value defined beforehandthe surveillance object code memory means 92 is made to memorize by making the information identification code concerned into a surveillance object about whether the received information identification code suits a user's taste conditions.

[0080]After the end of such a retrieval programat Step S37if the information identification code incidental to waiting and the signal for linkage comesarrival of

the information identification code to the 1st input part 31 (code input means)It is distinguished whether the code is memorized by the code memory means 92 of being a code of a surveillance objecti.e.a surveillance objectat the following step S38.

[0081]If this discriminated result becomes in YESit will treat as that into which service ID which came this time was inputtedand processing of the same following as less than step S2 of the above-mentioned example will be performed. Firstin Step S39it judges whether it is necessary to add inputted service ID to the service ID memory list of [in the memory 33]if there is no necessityit will progress to Step S41 promptlyand the service ID is added to a service ID memory list at Step S40 if necessary.

[0082]Subsequentlyif it distinguishes whether the execution demand by remote control operation was in predetermined time at Step S41 and there is no execution demandit will return to Step S37and if there is an execution demandit will progress to Step S42. Based on two or more service ID memorized by service ID in the inputted service ID memory listand the conversion table of the code conversion table 36 in Step S42It progresses to Step S43after extracting two or more script ID corresponding to inputted service ID and carrying out a display output by the display section 15. In Step S43it judges any of (4-2) using extracted script IDit mentioned aboveor (4-1) are performedand performs.

[0083]The personal computer section 12 constitutes said procedure-selection means 30 and the information output means 40as mentioned aboveand the procedure-selection means 30In order to identify a script programat least one service ID and two or more script ID corresponding to that service ID are memorized in the memory 33and specific script ID is selected from two or more of these script ID. Thereforequick selection of a script program is possible.

[0084]On such this embodiment and in the information output device of a client sideThe code input means 220 inputs automatically service ID equivalent to the signal for linkage with the program of a script programSince the procedure-selection means 30 and the information output means 40 are made to carry out

the coordinated movements of a predetermined program and script programthey can perform the advanced coordinated movements using a broadcasting signal between a program and the script by the side of a receiving terminal. The additional information relevant to the present scene of a predetermined program in said signal for linkageOr since it is a synchronized signal transmitted to the present scene of a predetermined program by interlockingadvanced coordinated movements can be performed between a program and the script by the side of a receiving terminal using the signal transmitted synchronizing with these programs.

[0085]The taste conditions of a user in case the code input means 220 carries out the coordinated movements of said predetermined program and either of said script programsMake the taste storage parts store 91 memorizeand The signal for linkageSince it has CPU34 as a condition-of-compatibility deciding part which determines said taste conditions and a condition of compatibility with said script programand CPU34 as a matching part which compares whether the received signal for linkage suits the conditions determined by said condition-of-compatibility deciding partOnly by registering the user's taste beforehandoperation which cooperates to the automatic input of the information identification code according to the taste and the program of the script program using it can be performed highlywithout performing a user's complicated alter operation in detail.

[0086]And CPU34 downloads the identification code of the new signal for linkage which carries out multiplex to a program and may be transmitted to it as a condition-of-compatibility deciding partand its attribution information from the external coded data base 130this -- since the update process which determines said taste conditions of the new signal for linkage and a condition of compatibility with a script program is performed automaticallycorrespondence becomes possible easily also at the new signal for linkage. As a resultcoordinated movements stable in the usual state of the script program can be performed.

[0087]Since CPU34 as a time limit mechanism restricts the execution time of the procedure-selection means 30 and the information output means 40 so that the

time required from reception of said signal for linkage to the operation start of a script program may become in predetermined timeThough various combination of a script is made possiblea sex is securable instancy. Even when processing of an automatic input of the signal for linkage mentioned above does not understand beforehand what kind of information identification code may be transmitted or what kind of information identification code is transmittedof course although it was processing in the case of understanding beforehandprocessing of an automatic input of the signal for linkage is possible.

[0088]Drawing 12 explains the example in such a case. Firstin Step S61when a user pushes the taste button 249 of the remote control 240a taste input program is started. Subsequentlyin Step S62if a user inputs liking of self using the keyboard 21 according to the guide displayed on CRT picture 15 like Steps S51-S53 shown in drawing 11these contents will be memorized by the taste storage parts store 91.

[0089]If a user pushes "execution" button 244 in the following step S63it will end and a taste input program will wait for arrival of the information identification code to the 1st input part 31 at Step S64. The information identification code in this case is sent as attribution information which is a specific synchronized signal with a meaning with which that image scenesituation of a programetc. are expressedfor example synchronizing with a broadcast imageand accompanies it. And when the information identification code comesat the following step S65it is started by the retrieval program 82 stored in the memory 33and in the following step S66. It is distinguished whether based on the attribution information of the information identification code which cameand the memory content of the taste storage parts store 91 established in the memory 33the received information identification code concerned suits the script program of a client sideand a user's taste conditions. That isCPU34 as a conformity judgment part processes the conformity judging with the attribute group of the information identification code corresponding to a user's taste conditionsand the attribution information of the information identification code which came.

[0090]If the discriminated result becomes in YESit will treat as that into which service ID which came this time was inputtedand processing of the same following as less than step S39 of the above-mentioned example will be performed. Firstin Step S67it judges whether it is necessary to add inputted service ID to the service ID memory list of [in the memory 33]if there is no necessityit will progress to Step S67 promptlyand the service ID is added to a service ID memory list at Step S68 if necessary. Subsequentlyif it distinguishes whether the execution demand by remote control operation was in predetermined time at Step S69 and there is no execution demandit will return to Step S64and if there is an execution demandit will progress to Step S70. Based on two or more service ID memorized by service ID in the inputted service ID memory listand the conversion table of the code conversion table 36 in Step S70It progresses to Step S71after extracting two or more script ID corresponding to inputted service ID and carrying out a display output by the display section 15. In Step S71it determines any of (4-2) using extracted script IDmentioned above or (4-1) are performedand performs. On such this embodiment and in the information output device of a client sideThe code input means 220 inputs automatically service ID equivalent to the signal for linkage with the program of a script programSince the procedure-selection means 30 and the information output means 40 will carry out the coordinated movements of a predetermined program and script programthey can perform the advanced coordinated movements using a broadcasting signal between a program and the script by the side of a receiving terminal. The additional information relevant to the present scene of a predetermined program in said signal for linkageOr since it is a synchronized signal transmitted to the present scene of a predetermined program by interlockingadvanced coordinated movements can be performed between a program and the script by the side of a receiving terminal using the signal transmitted synchronizing with these programs. The taste conditions of a user in case the code input means 220 carries out the coordinated movements of said predetermined program and either of said script programs like the above-mentioned exampleSince it has CPU34 as a conformity

judgment part which makes the taste storage parts store 91 memorizeand performs the conformity judging with said taste conditions and said script program of the signal for linkageOnly by registering the user's taste beforehand as an attribution information group of said synchronized signal with a meaningetc.when the information identification code according to the taste comeswithout it performs a user's complicated alter operation for the operation which cooperates to the program of the script program using the automatic input and it in detail -- quickness -- it can perform easily and highly. If it is made to judge whether said signal for linkagesaid taste conditionsand said script program suit the server sidethe terminal configuration of a receiver can be simplified more.

[0091]As mentioned abovein this invention an information providerWhile sending the servicing information which is picture information which introduces the contents of servicing information simplysuch as an imagea still pictureand graphicsand the information identification code attached to the servicing information to a user terminalin the user terminal side by an input means. An operator chooses specific servicing information using the specific information made to memorize beforehand or the picture information sent nowand an information identification codeand the "utilization procedure" with which a procedure selecting means uses specific servicing information is selected using a "conversion table." Thereforewhen various utilization procedures which it already has by the user terminal side are utilized and an operator (user) combines them uniquelyvarious service provision gestalten which specialized in the user individual can be realizedand the application range of various-services information can be extended.

[0092]It is foundations that an information provider prepares beforehand here an information identification code required for servicethe picture for introductionand the utilization procedure considered to be required. That isin the above-mentioned embodimentit was considered as the contents which make various kinds of servicing information identifiable using the information identification code beforehand defined by the information provider side. Howeverin this

embodimentwhen picture information etc. are acquired from external electronic mediasaid code input means can also perform the information identification code for identifying the acquisition information.

[0093]In this casea utilization procedure required for the service which an operator assumesand arbitrary information identification codes are registered into the "conversion table" of the procedure selecting means using the remote control 240 which an operator operatesfor examplea remote controlas preliminary arrangements. Out of the picture chosen from the electronic media represented with this state by package mediabroadcasting mediaa transmission mediaetc. While starting the range of an available scene as specific information using a remote control etc.the information identification code registered previously is given and it records on the coded data base 130. Of coursethe remote control input of the information identification code may be carried out simultaneously with recordingthe easy tag is struckand an information identification code may be re-registered based on the tag by post-processing. The storage configuration of the started specific information is completely the same as the specific information by which accumulation memory was sent and carried out by the broadcast from the outsideetc.and the user can use the servicing information provided by the information provider and the himself selected information fair. With the picture in this use sceneif it is simply called ****it is equivalent to naming and recording a name on a recorderbut since it is what introduces a service content by a picture to the lastthe recorded picture must be startedwithout being behind in a required image scene. By thereforethe picture delay function continue recording the picture sent on endlessor using the recording element. That is [it absorbs the operation delay in operator operation]only a short time leaves the picture before a recording startand the picture information having contained this portion can be started and it can use for a service introduction picture as a picture.

[0094]

[Effect of the Invention]A means to input an information identification code according to the invention according to claim 1 as explained aboveA means to

select a utilization procedure suitable for using the specific servicing information corresponding to the inputted information identification codeSince it has a means to acquire specific servicing information from the predetermined source of servicing information according to the selected utilization procedureand to output by predetermined expressive formThe various utilization procedures corresponding to an identification code can be arbitrarily chosen by the service or user sideand offer/acquisition of the information on a desirable utilization procedure can be performed.

[0095]According to the invention according to claim 2said information output means executes the script program in which an output is possible by the expressive form which defined said servicing information beforehandSince said procedure-selection means matches this script program with said information identification code and selects ita favorite thing can be chosen from two or more script programs corresponding to an identification codeand selection of a desirable utilization procedure is attained by easy operation.

[0096]According to the invention according to claim 3said procedure-selection means memorizes at least one information identification code and two or more script identification codes corresponding to this information identification codeSince a specific script identification code is selected from the script identification code of this pluralitya script program can be selected promptly. According to the invention according to claim 4said procedure-selection means changes the inputted information identification code into two or more script identification codes corresponding to this codeSince the script program corresponding to the specified this distinguishing mark is selected according to the selection operation of the operator which carries out the display output of the distinguishing mark corresponding to the script programand specifies any they areThe utilization procedure which an operator wishes can be selected by the easy selection operation which chooses a distinguishing mark.

[0097]According to the invention according to claim 5said code input means inputs the information identification code contained in this information from

specific information. Thereforean information identification code can be easily inputted using the existing input means which inputs said specific information. Since said procedure-selection means has a code storage part which acquires an information identification code and the script identification code corresponding to this information identification code from external code correspondence sources of informationand memorizes them according to the invention according to claim 6Even if it is the information identification code and script identification code which are not held nowit can be incorporateda new script program can be started and it can respond to various utilization procedures easily.

[0098]Since said information output means acquires said script program from the external source of script information based on said script identification code according to the invention according to claim 7while being able to respond to various utilization procedures easilya script program can be started immediately. According to the invention according to claim 8said information output means has a script storage parts store which matches with said script identification code two or more script programs corresponding to the script identification code memorized by said procedure-selection meansand memorizes them. Thereforethe selected script program can be started immediately. Said script storage parts store is a storage device which memorizes the conversion table of the information identification code and script identification code which were acquiredfor example from code correspondence sources of information and in which a memory or high speed reading is possible.

[0099]According to the invention according to claim 9said code input means inputs the code of a predetermined digit number according to operation of an operator. Thereforeregardless of the gestalt of mediaan information identification code can be inputted from various media. Since according to the invention according to claim 10 a judging means acquires the information which specifies the validity of an information identification code from predetermined code management sources of information and it judges whether an information identification code is effective based on thisIt can be judged immediately whether

the inputted information identification code is effectiveand useless processing can be prevented.

[0100]According to the invention according to claim 11a code input means inputs the additional information which accompanies this information identification code with an information identification codeSince a procedure-selection means selects a script program based on this additional information and an information identification codea desirable utilization procedure can be promptly selected for additional information by a basis. Since a script program carries out the transfer request of said specific servicing information to the source of servicing information based on additional information and an information identification code according to the invention according to claim 12specific servicing information can be provided or acquired promptly.

[0101]According to the invention according to claim 13said information output means according to an operator input based on an information identification codeSince a specific program or data is acquired from the service-function sources of information which provide the program or data for adding a required service functiona needed service function can be added suitably. When the information identification code to which said procedure-selection means corresponds to neither among said memorized information identification codes is inputted by said code input means according to the invention according to claim 14Since transmission of the script identification code corresponding to this information identification code is required of said source of code informationthe script program which is not held till then can also be started certainly.

[0102]Since the updating period judging means which judges the necessity for renewal of version information or a script identification code to this script program and script identification code of a script program was established according to the invention according to claim 15By judging an updating perioda script program can be promptly started by holding an always new script program with the identification code.

[0103]Since a script program requires the specific servicing information specified

by an operator of the predetermined source of servicing information according to the invention according to claim 16Specific servicing information can be acquired according to the utilization procedure specified by an operatorand it can output with the gestalt corresponding to specification of an operator. Since said servicing information is merchandise information according to the invention according to claim 17various merchandise information can be provided / acquired not with a uniform procedure but with the utilization procedure suitable for a user's liking.

[0104]According to the invention according to claim 18since it has an accumulation memory means to accumulate the acquired specific servicing informationa screen display of the specific servicing information with which the user side was provided can be carried out at the time of the necessity for a useror a print recording output can be carried out. According to the invention according to claim 19since said specific information is information by which the record output was carried out in visiblefacilitating of both the recognition and selection operation of an information identification code by a user can be carried out.

[0105]According to the invention according to claim 20since said specific information is information received via the specific information transmission path from the outsidefacilitating of both the recognition and selection operation of an information identification code by a user can be carried out. According to the invention according to claim 21since said specific information is information indicated for the magazinefacilitating of the recognition and selection of an information identification code by a user can be carried out.

[0106]Since said specific information is information broadcast from the broadcasting station according to the invention according to claim 22By remote control operation etc.program accompanying information can be inputted momentarily and servicing information related from the program accompanying information can be acquired from real time or after if needed. According to the invention according to claim 23in the invention according to claim 10since the

information which specifies the validity of said information identification code is information which specifies the shelf-life of an information identification codea validity judging can be immediately carried out from the shelf-life of the inputted information identification code.

[0107]According to the invention according to claim 24in the invention according to claim 10since the information which specifies the validity of said information identification code is information which specifies the version of an information identification codea validity judging can be immediately carried out from the version of the inputted information identification code. When the signal for linkage transmitted to the predetermined program by carrying out multiplex is received according to the invention according to claim 25Since said code input means inputs automatically said information identification code corresponding to this signal for linkage and said procedure-selection means and an information output means carry out the coordinated movements of a predetermined program and said script programBetween a program and the script by the side of a receiving terminalthe advanced coordinated movements using a broadcasting signal can be performed.

[0108]Since said signal for linkage is the additional information relevant to the present scene of a predetermined program and is a synchronized signal transmitted to the present scene of a predetermined program by interlocking according to the invention according to claim 26 according to the invention according to claim 27Between a program and the script by the side of a receiving terminaladvanced coordinated movements can be performed using the accompanying information and synchronization information of these programs.

[0109]The taste storage parts store which memorizes the taste conditions of a user in case said code input means carries out the coordinated movements of said predetermined program and either of said script programs according to the invention according to claim 28The condition-of-compatibility deciding part which determines said taste conditions of said signal for linkageand a condition of compatibility with said script programSince he is trying to have a matching part

which compares whether the received signal for linkage suits the conditions determined by said condition-of-compatibility deciding partOnly by registering the user's taste beforehandautomatic input of the information identification code according to the taste and operation which cooperates to the program of the script program using it can be performed highly without a user's complicated alter operation.

[0110]According to the invention according to claim 29the identification code of the new signal for linkage which carries out multiplex to a program and may be transmitted to itand its attribution information are downloaded from an external coded data basethis -- since said taste conditions of the new signal for linkage and a condition of compatibility with a script program are determinedcorrespondence becomes possible easily also at said new signal for linkageand coordinated movements stable in the usual state of the script program can be performed.

[0111]According to the invention according to claim 30it has a time limit mechanism for restricting the execution time of said procedure-selection means and an information output means so that the time required from reception of said signal for linkage to the operation start of said script program may become in predetermined time. Thereforethough various combination of a script is made possiblea sex is securable instancy.

[0112]Since operation of said script program is a recording start of said programor the receiving channel change to the program concerned according to the invention according to claim 31the recording operation which was excellent in the sex instancy becomes possible. According to the invention according to claim 32said condition-of-compatibility deciding part uploads said taste conditions to an external purveyor of serviceIt requests determining said signal for linkageand said taste conditions to the purveyor of serviceand since the result determined by the purveyor of service is downloadedthe composition of a receiver can be simplified.

[0113]According to the invention given in the claim paragraph 33said code input

means is in charge of inputting said information identification code and its attribution informationThe taste conditions of a user when making this attribution information into said signal for linkage and carrying out the coordinated movements of said predetermined program and either of said script programsThe condition-of-compatibility deciding part which determines said taste conditions of said signal for linkageand a condition of compatibility with said script program based on the attribution information of this information identification codeSince it has a matching part which gives the information identification code corresponding to the this received signal for linkage to said code input means when the received signal for linkage suits the conditions determined by said condition-of-compatibility deciding partBetween a program and the script by the side of a receiving terminalthe advanced coordinated movements using the attribution information of the information identification code can be performed.

[0114]According to the invention according to claim 34in the information output device according to claim 5since it has the specific information memory means which accumulates said specific informationan information identification code can be accumulated with introduction of the information contentetc.and the availability of an operator can be improved. Since said specific information contains picture information according to the invention according to claim 35an information identification code can be accumulated with the introduction picture of the information contentetc.and the availability of an operator can be improved.

[0115]While the invention according to claim 36 inputs the information identification code beforehand decided by operation of the operator by said code input meansThe code grant means which gives the information identification code inputted by this code input means to said acquired specific informationand makes the information on this specification identifiable is formedSince he is trying for said specific information memory means to accumulate the specific information to which this information identification code was givenThe favorite information of the user (operator) who cannot specify in the offer-of-information side is chosen by the arbitrary selection operationWith the information

identification code decided arbitrarily (howeverthe attribution information which defines that it is a determination code by a user is included) by the userit can accumulate in the identifiable state easily.

[0116]Since said specific information is the picture information obtained from electronic mediaa user's favorite picture information can be accumulated identifiable easilyand the invention according to claim 37 can reproduce it. According to the information service system concerning the invention according to claim 38the information output device according to claim 1Said specific source of servicing information which can provide this information output device with said servicing informationSince it has the information output control means which acquires and outputs the specific servicing information which selects the utilization procedure selected by said procedure-selection means based on the information from said information output deviceand should be acquired by the information output deviceA script program suitable for the utilization procedure with which the service side was also selected by the information output device side can be started when providing the servicing information to an information output device. As a resultthe output of the servicing information by the side of an information output device is controlled according to a desirable procedureand servicing information can be promptly provided / acquired by the supply form for which a user wishes.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]
[Drawing 1]It is the outline system configuration figure showing one embodiment of an information output device and an information service system concerning this invention.
[Drawing 2]It is a block diagram showing the hard structure of the information output device of one embodiment.

[Drawing 3]It is a front view showing the final controlling element of the remote control kicked to one embodiment.

[Drawing 4]It is a flow chart which shows the fundamental procedure in one embodiment.

[Drawing 5]It is a flow chart which shows the concrete procedure using the remote control of one embodiment.

[Drawing 6]It is an explanatory view of the action selection screen in one embodiment.

[Drawing 7]It is the outline system configuration figure showing other embodiments of the information output device and information service system concerning this invention.

[Drawing 8]It is a block diagram showing the hard structure of the information output device of other embodiments.

[Drawing 9]It is a front view showing the final controlling element of the remote control kicked to other embodiments.

[Drawing 10]It is a flow chart which shows an example of the automatic input procedure of the information identification code in other embodiments.

[Drawing 11]It is a flow chart which shows the taste input process under processing of drawing 10.

[Drawing 12]It is a flow chart which shows the modification of the automatic input procedure of the information identification code in other embodiments.

[Description of Notations]

10210 user terminals (information terminal of a client side)

11 TV section (information output means)

12 Personal computer section (a procedure-selection meansinformation output means)

15 Display section (information output means)

20220 code input means

21 Keyboard

22 The reception means of an antenna etc.

23 OCR

24 Remote control

30 Procedure-selection means

31 The 1st input part

32 The 2nd input part

33 Memory

34 CPU (a condition-of-compatibility deciding parta conformity judgment part)

36 Code conversion table (code storage part)

37 Decision program storage parts store (validity judging means)

38 Decision program storage parts store (updating period judging means)

40 Information output means

41 Basic script storage parts store

42 Selection script storage parts store

50 The source of various merchandise information

60 The database server by the side of service

70 The source of multiple address type servicing information

110 Conversion table database

120 Service-function database

130 Coded data base (specific information memory means)

150 and 250 Information output control means

240 Remote control